

Sample Questions for

ASAT

(ALLEN Scholarship Admission Test)

CLASSROOM CONTACT PROGRAMME

PRE-NURTURE & CAREER FOUNDATION : CLASS-VII
(FOR VI to VII MOVING STUDENTS)

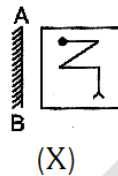


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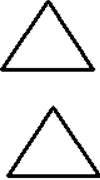

MENTAL ABILITY

- Arrange the given word in alphabetical order and choose the one that comes third :
 (1) Rigour (2) Remove (3) Retrospect (4) Revive
- A man is facing east. He turns 135° in the clockwise direction and then 45° in the anti-clockwise direction. Which direction is the facing now ?
 (1) East (2) West (3) North (4) South
- If OLYMPICS is coded as PMZLNQJDT, and JUMP is coded as KVNQ, then COMPUTER will be coded as :
 (1) DPNQTSQ (2) DPNQTSFQ (3) DPNQVUFS (4) BNLOTSDQ
- Choose the correct mirror image of figure (X) if mirror is placed as shown

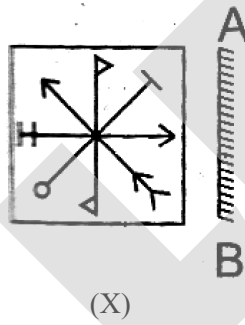


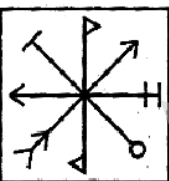
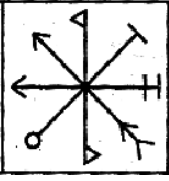
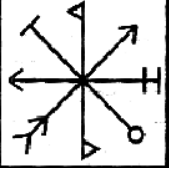
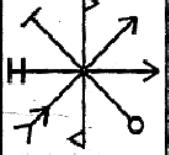
- Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.
 1. Wrinkle 2. Wriggle 3. Writhe 4. Wretch 5. Wrath
 (1) 4 5 1 2 3 (2) 5 4 2 1 3 (3) 4 2 5 1 3 (4) 5 2 1 3 4
- What should come in the place of question mark. D – 4, F – 6, H – 8, J – 10, ... ?
 (1) M – 13 (2) N – 14
 (3) L – 12 (4) None of these
- A person walks 1 mile to West, turns left and walks 1 mile, turns left and walks 1 mile, again turns left and walks 1 mile. What is the direction he is facing now ?
 (1) East (2) South (3) North (4) West
- There are five houses P, Q, R, S and T. P is to right of Q and T is to left of R and to right of P. Q is to right of S. Which house is in the middle ?
 (1) P (2) Q (3) T (4) R
- What comes in place of question mark (?) in the given number series ?
 4, 24, 6, 48, 8, 80, ?
 (1) 8 (2) 9 (3) 10 (4) 4
- In a certain code, BOY is written as \$*• and HOUR is written @*£0. How is RUBY written in that code :-
 (1) 0 £ \$ • (2) 0 \$ £ • (3) • \$ £ 0 (4) • £ \$ 0

19. Which of the following diagrams represents a relationship between players and footballers ?

- (1) 
- (2) 
- (3) 
- (4) 

20. Choose the correct mirror image of figure (X) if mirror is placed as shown :-



- (1) 
- (2) 
- (3) 
- (4) 

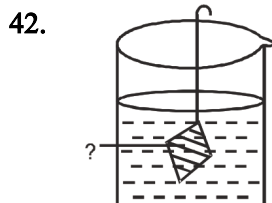
PHYSICS

21. Which is a bad conductor of heat and electricity ?
(1) Zinc (2) Aluminium (3) Wood (4) Copper
22. Which one is luminous source of light ?
(1) Moon (2) Table (3) Gold (4) Sun
23. An electromagnet is a magnet that works :
(1) Only with the help of electricity (2) Permanently
(3) Both (1) and (2) (4) None of these
24. S.I. unit for measurement of time is :
(1) second (2) minute (3) hour (4) all of these
25. In three pin socket the biggest hole is connected to :
(1) Any wire (2) Live wire (3) Neutral wire (4) Earth wire
26. Plane mirrors are arranged at an angle to get a number of coloured images in :
(1) Periscope (2) Kaleidoscope (3) Telescope (4) Thermoscope
27. Magnetic keepers are pieces of :
(1) wood (2) rubber (3) soft iron (4) sodium
28. Rectilinear and curvilinear motion are the two types of :
(1) Translational motion (2) Rotational motion
(3) Oscillatory motion (4) Vibratory motion
29. If a current is drawn from the cell connected in an electric circuit, then that circuit is said to be :-
(1) Open (2) Close
(3) Both (1) and (2) (4) None of these
30. The angle of incidence of an incident ray (hitting a plane mirror) with normal is _____ angle of reflection of a reflected ray with normal.
(1) Equal to (2) Greater than (3) Less than (4) None of these
31. Electric door-bell is based on :
(1) Magnetic effect of current (2) Chemical effect of current
(3) Heating effect of current (4) Lightning effect of current
32. Motion of a car or cycle wheels running on road is :
(1) Translational motion (2) Rotational motion
(3) Rolling motion (4) Oscillatory motion
33. Instead of copper wire, a/an _____ strip can be used to complete a circuit.
(1) rubber (2) wooden (3) aluminium (4) plastic

CHEMISTRY

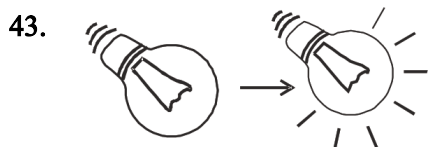
41. Global warming is the result of the increase in ___ in air ?

- (1) Nitrogen (2) Oxygen
(3) Helium (4) Carbon dioxide



Look carefully at this picture. The substance which tie to a string, to make the particles settle down in water is :

- (1) Alum (2) Alloy (3) Amalgam (4) Paper



Lighting an electric bulb is _____ change :

- (1) Reversible (2) Irreversible
(3) Chemical changes (4) Both (1) and (2)

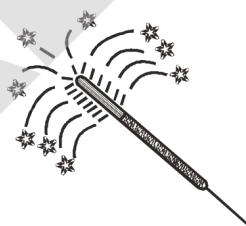
44. Materials that can be easily compressed are :-

- (1) Soft (2) Hard (3) Scaly (4) Rough

45. Jute is a/an....fibre ?

- (1) Animal (2) Synthetic (3) Plant (4) None of these

46. Burning of a sparkler is :



- (1) Irreversible process (2) Reversible process
(3) Both (1) and (2) (4) None of these

47. Kerosene is separated from water by using :-

- (1) Sieving (2) Separating funnel
(3) Filtration (4) None of these

48. The “universal solvent” is :-

- (1) Alcohol (2) Water (3) Curd (4) Milk

49. Cotton is usually picked by hand. Fibres are then separated from the seeds by combing. This process is called _____ of cotton.

- (1) Spinning
- (2) Retting
- (3) Ginning
- (4) None of these

50. Door locks are made of metals because metals :-

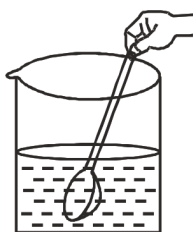
- (1) Have lustre
- (2) Are opaque
- (3) Are good conductors of heat
- (4) Are hard and strong

51. The components of air which are harmful to living beings are :-

- (1) Nitrogen and CO₂
- (2) Dust and water vapour
- (3) Dust and smoke
- (4) Smoke and water vapour

52. Study the figure below & answer the question.

If a solid dissolves in a liquid we get a solution. The solid that dissolves in any liquid is called :



Saturated Solution
of Sugar

- (1) Solute
- (2) Solvent
- (3) Heterogeneous mixture
- (4) Homogeneous mixture

53. Brown colour of the apple after cutting is :-

- (1) Physical change
- (2) Chemical change
- (3) No change
- (4) Periodic changes

54. Which of the following is insoluble in water ?
- (1) Alcohol
 - (2) Simple salt
 - (3) Coconut oil
 - (4) Sugar
55. A fabric is made of :-
- (1) Yarn
 - (2) Coir
 - (3) Hair
 - (4) None of these
56. Which of the following is irreversible ?
- (1) Cold milk to hot milk
 - (2) Water to water vapours
 - (3) Woollen yarn to knitted sweater
 - (4) Raw egg to boiled egg
57. The process of settling down of the particles of an insoluble solid in a liquid is called.
- (1) Decantation
 - (2) Sedimentation
 - (3) Winnowing
 - (4) Sieving
58. Which of the following is not a source of potable water :-
- (1) Well
 - (2) River
 - (3) Lake
 - (4) Sea
59. Nylon is a/an fibre :-
- | | |
|---------------|-----------------------|
| (1) Plant | (2) Animal |
| (3) Synthetic | (4) None of the above |
60. An oiled paper acts as a _____ material :-
- | | |
|-----------------|----------------------|
| (1) Transparent | (2) Translucent |
| (3) Opaque | (4) Both (1) and (3) |

BIOLOGY

61. The joint which allows frontward and backward movement of head is :-
(1) Hinge joint (2) Ball and socket joint
(3) Pivot joint (4) Fixed joint
62. The process of converting kitchen waste to manure is known as :-
(1) recycling (2) composting (3) land filling (4) reducing
63. Which of the following nutrients in food makes it energy rich ?
(1) Carbohydrates (2) Minerals
(3) Vitamins (4) Roughage
64. Which of the following is biotic component in terrestrial habitats ?
(1) Air (2) Rock (3) Plants (4) Light
65. The broad part of leaf is called :-
(1) petiole (2) veins (3) lamina (4) midrib
66. The bones at the elbow are joined by a _____ joint.
(1) ball and socket (2) pivot
(3) hinge (4) fixed
67. Sea animals like dolphins and whales breathe through their :-
(1) gills (2) blowholes (3) skin (4) spiracles
68. Deficiency of which mineral in our food causes anaemia :
(1) Iron (2) Magnesium (3) Manganese (4) Sodium
69. The innermost part of a flower is :-
(1) petal (2) sepal (3) ovary (4) ovule
70. Which of the following animals have an outer skeleton ?
(1) frog (2) cockroach (3) snake (4) elephant
71. When you say organisms, you mean—
(1) all animals (2) all plants
(3) all birds (4) all living things
72. Which of the following packaging materials should be preferred for keeping the environment safe :-
(1) Plastic bag (2) paper bags
(3) jute bags (4) Both (2) and (3)
73. Which of the following is not rich source of carbohydrate :
(1) Gram (2) Potato (3) Wheat (4) Maize

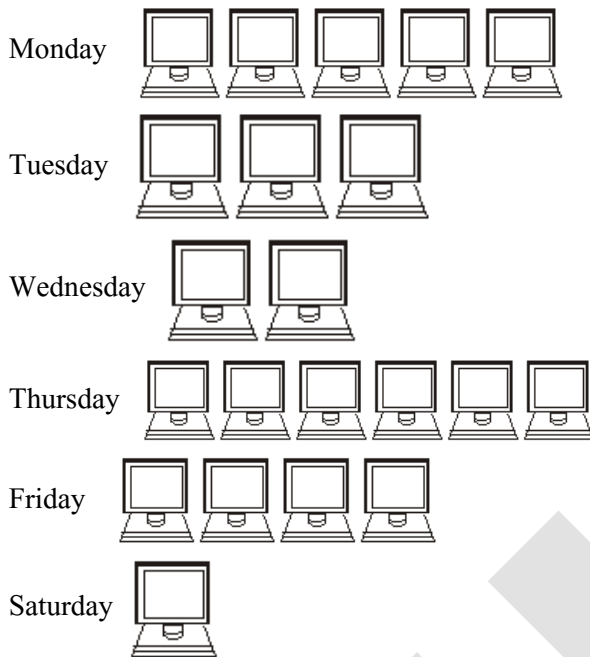
74. Which of following animal can live both on land and in water ?
- (1) frog (2) fish
(3) silverfish (4) crow
75. The process by which food is prepared in leaves is known as :-
- (1) respiration
(2) transpiration
(3) photosynthesis
(4) regeneration
76. Which of the following joint is immovable ?
- (1) shoulder and arm
(2) knee and thigh
(3) upper jaw and skull
(4) lower jaw and upper jaw
77. Which of the following is/are characteristics of living beings ?
- (1) respiration
(2) reproduction
(3) excretion
(4) All of these
78. Dietary fibres are also known as :
- (1) Undigested food
(2) Roughage
(3) Essential amino acid
(4) All of the above
79. Which of the following terms constitute the female part of the flower ?
- (1) sepals, petals and stamen
(2) stigma, style and ovary
(3) ovary, stamen and stigma
(4) ovary, style and stamen
80. Fishes show which type of movement ?
- (1) crawling
(2) swimming
(3) slithering
(4) concertina

MATHEMATICS

81. If n represents any integer, then which expression represents multiple of 4 ?
- (1) $4 + n$ (2) $4n$ (3) $\frac{n}{4}$ (4) $n - 4$

82. The following pictograph shows the number of computers sold by a company during a week.

The scale used :  \equiv 6 computers



Look at the pictograph and answer the question given below : On which day was the sale maximum ?

- (1) Thursday (2) Monday (3) Friday (4) Tuesday
83. Which among the following is not a rectangle ?



84. The sum of predecessor of -16 and successor of 16 is :
- (1) 17 (2) 1 (3) -1 (4) 0

85. Arrange the following in descending order : $\frac{1}{2}, \frac{5}{18}, \frac{4}{9}, \frac{7}{27}$.

(1) $\frac{1}{2}, \frac{5}{18}, \frac{4}{9}, \frac{7}{27}$

(2) $\frac{7}{27}, \frac{5}{18}, \frac{4}{9}, \frac{1}{2}$

(3) $\frac{1}{2}, \frac{7}{27}, \frac{4}{9}, \frac{5}{18}$

(4) $\frac{1}{2}, \frac{4}{9}, \frac{5}{18}, \frac{7}{27}$

86. Find the perimeter of an equilateral triangle, each of whose sides measure 9 cm :

(1) 24 cm

(2) 25 cm

(3) 27 cm

(4) 28 cm

87. If the radius of a circle is 3.28 cm. Its diameter is :

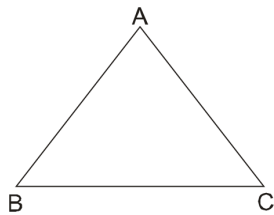
(1) 1.64 cm

(2) 328 cm

(3) 6.56 cm

(4) 5.34 cm

88. How many lines of symmetry are possible in the following triangle ABC in which AB = AC :



(1) 2

(2) 1

(3) 4

(4) 3

89. My mother divided a pineapple into 12 parts. I ate 5 out of them. My sister ate 3. What fraction of pineapple remained ?

(1) $\frac{1}{12}$

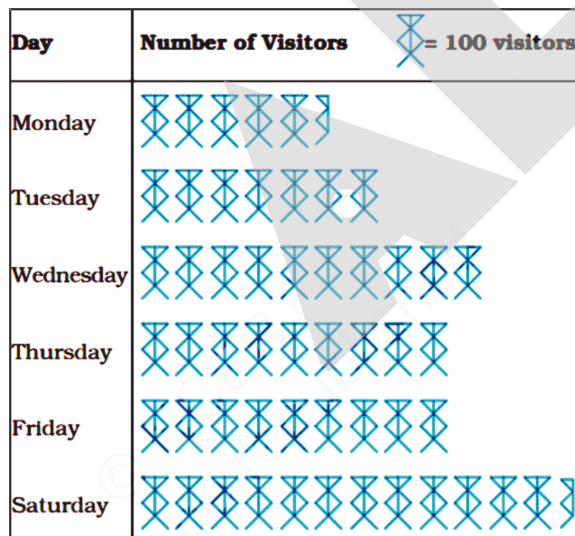
(2) $\frac{3}{12}$

(3) $\frac{5}{12}$

(4) $\frac{4}{12}$

90. The number of visitor in a science exhibition on different days of a week is shown below :

Look at the given pictograph and answer the following question:



On which days was the number of visitors equal to 1250 on two days taken together?






(1) Monday and Tuesday

(2) Tuesday and Wednesday

(3) Friday and Saturday

(4) Thursday and Friday

91. In the below pictograph, number of Giraffe are _____ of number of Zebra.

Giraffe	
Zebra	
Tiger	
Wolf	
Bear	

- (1) 5 times (2) 6 times (3) 4 times (4) 2 times

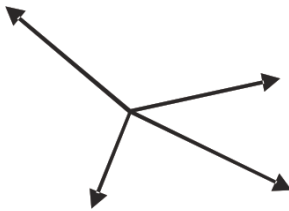
92. A Semi-circle has _____ lines of symmetry

- (1) 5 (2) 2 (3) 1 (4) 4

93. If $x = 5$ and $y = x + 7$, then the value of $x^2 + y =$

- (1) 37 (2) 30 (3) 28 (4) 27

94. Number of rays formed in the given figure is :



- (1) 3 (2) 2 (3) 1 (4) 4

95. How many rays can a line AB show if O is a point marked between A and B ?

- (1) 2 (2) 1
(3) 0 (4) None of these

96. The diameter of a circle is 7 cm. Its circumference is :

- (1) 44 cm (2) 22 cm (3) 28 cm (4) 14 cm

97. 2 less than -3 is :

- (1) -1 (2) 1 (3) -5 (4) 5

98. $(7248 - 2427)$ estimated to the nearest hundred is :

- (1) 4900 (2) 4800 (3) 4841 (4) 5000

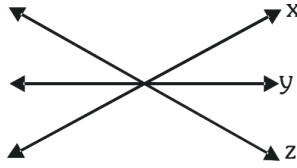
99. 4 more than -5 is :

- (1) 9 (2) -9 (3) -1 (4) 1

100. The sides of a triangle are in the ratio $3 : 2 : 5$ and its perimeter is 30 cm. The length of the longest side is :

- (1) 20 cm (2) 15 cm (3) 10 cm (4) 12 cm

101. In the given figure, line x, y and z are called ——— lines.



- (1) Collinear (2) Parallel (3) Concurrent (4) Transversal

102. One egg has a mass of about 65 g. What is the mass of 2 dozen eggs ?

- (1) 1560 g (2) 1344 g (3) 1300 g (4) 1040 g

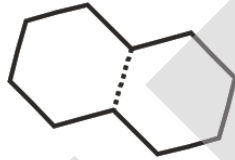
103. Which of the following angle cannot be constructed using ruler and compasses only ?

- (1) 70° (2) $22\frac{1}{2}^\circ$ (3) $112\frac{1}{2}^\circ$ (4) 150°

104. What is the product of largest 3-digit number and smallest 4-digit number ?

- (1) 99900 (2) 9990000 (3) 990000 (4) 999000

105. Two regular hexagons of perimeter 30 cm each are joined as in figure. The perimeter of the new figure is :



- (1) 65 cm (2) 60 cm (3) 55 cm (4) 50 cm

106. The sum of $4y$ and $3y^2$ is :

- (1) $7y^3$ (2) $7y^2$
(3) $4y + 3y^2$ (4) None of these

107. In SI system unit of area is :

- (1) meter (2) cm square
(3) meter square (4) meter cube

108. Which type of angle has a measure that is smaller than a right angle ?

- (1) Acute (2) Obtuse
(3) Straight (4) Reflex







109. $13 - (12 - 6 \div 3) = ?$

- (1) 11 (2) 3
(3) $\frac{7}{3}$ (4) None of these

110. By solving $\left(\frac{-72}{-8}\right) + (-3 \times -9) + (-4) + 2$, you will get :-

- (1) 34 (2) -34 (3) 24 (4) -24

111. There are 1000 children who were asked about their hobbies. The children who told about their hobby, has been shown below. But some children didn't reply.

Hobbies	No. of Children
Dancing	
Singing	
Playing	
Travelling	
Adventuring	
	One  represent 25 children

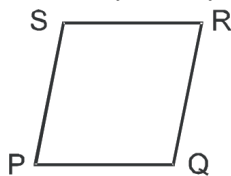
Which of the following is the correct pictorial representation for the children who did not reply?



112. Samar takes 10 rounds of a square garden. The side of the square if the total distance covered by her is 2000 m is :

- (1) 200 m (2) 50 m (3) 25 m (4) 100 m

113. Line of symmetry of Rhombus PQRS is _____.



- (1) PR (2) QS
(3) Both (1) & (2) (4) None of these

114. The smallest of the fractions $\frac{6}{11}$, $\frac{7}{11}$, $\frac{8}{11}$, $\frac{9}{11}$ is

- (1) $\frac{6}{11}$
(2) $\frac{7}{11}$
(3) $\frac{8}{11}$
(4) $\frac{9}{11}$

115. 1512 when rounded off to the nearest hundred is :

- (1) 1600 (2) 1500
(3) 1510 (4) None of these

ANSWER KEY

Q.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.	4	4	3	2	2	3	3	1	3	1	1	1	1	2	4	4	3	3	4	3
Q.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
A.	3	4	1	1	4	2	3	1	2	1	1	3	3	3	3	2	4	2	2	2
Q.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
A.	4	1	1	1	3	1	2	2	3	4	3	1	2	3	1	4	2	4	3	2
Q.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
A.	3	2	1	3	3	3	2	1	4	2	4	4	1	1	3	3	4	2	2	2
Q.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
A.	2	1	4	4	4	3	3	2	4	1	4	3	1	4	1	2	3	2	3	2
Q.	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
A.	3	1	1	4	4	3	3	1	2	1	4	2	3	1	2	4	4	3	3	2